

011304

17236 U.S. PTO

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PTO/SB/05 (03-01)  
Approved for use through 10/31/2002. OMB 0651-0032  
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00727 U.S. PTO  
10/756998

011304

UTILITY  
PATENT APPLICATION  
TRANSMITTAL(Only for new nonprovisional applications under  
37 CFR 1.53(b))

Attorney Docket No. 43640/45781

First Inventor Scranton, Delbert C., Jr.

Title Process and Composition for Increasing the Reactivity of  
Sulfur Scavenging Oxides

Express Mail No. EV328618865US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent  
application contents.

1. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
2. ☒ Specification [Total Pages 31]  
(preferred arrangement set forth below)  
☒ Descriptive title of the invention  
☒ Cross Reference to Related Applications  
☐ Statement Regarding Fed sponsored R & D  
☐ Reference to sequence listing, a table,  
or a computer program listing appendix  
☒ Background of the Invention  
☒ Brief Summary of the Invention  
☒ Brief Description of the Drawings (if filed)  
☒ Detailed Description  
☒ Claim(s)  
☒ Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 1]
4. Oath or Declaration [Total Pages 3]  
a. ☐ Newly executed (original or copy)  
b. ☐ Unexecuted  
c. ☒ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 17 completed)  
i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

ADDRESS TO: Assistant Commissioner for Patents  
BOX PATENT APPLICATION  
P.O. Box 1450, Alexandria, VA 22313-1450

5. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a. ☐ Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ paper  
c. ☐ Statements verifying identify of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☒ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
14. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent
15. ☒ Certificate of Express Mail
16. ☐ Other: \_\_\_\_\_

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76:☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: 09/882156

Prior application information:

Examiner Edward Johnson

Group Art Unit: 1754

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is  
supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby  
incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted  
application parts.

## 18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

021888

(Insert Customer No. or Attach  
bar code label here)

or



Correspondence address below

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

## Complete if Known

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$856

Application Number TBA  
Filing Date 1-13-04  
First Named Inventor Scranton, Delbert C., Jr.  
Examiner Name TBA  
Art Unit TBA  
Attorney Docket No. 43640/45781

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number 20-0823

Deposit Account Name

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	770
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 770

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
18	-20** = 0	0	0
Independent Claims 4	-3** = 1	86	86
Multiple Dependent		0	0

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 86

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES


Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0

## SUBMITTED BY

Name (Print/Type) Daniel S. Kasten  
Signature 

Registration No. (Attorney/Agent) 45,363

## Complete (if applicable)

Telephone 314-552-6305

Date 1-13-04

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**EXPRESS MAIL CERTIFICATE OF MAILING (37 CFR 1.10)****Express Mail No. EV328618865US**

Docket No.

43640/45781

In Re Application Of:  
Scranton, Delbert, C., Jr.Serial No.  
to be assignedFiling Date  
1-13-04Examiner  
To be assignedGroup Art Unit  
To be assignedTitle:  
Process and Composition for Increasing the Reactivity of Sulfur Scavenging Oxides**TO THE COMMISSIONER OF PATENTS AND TRADEMARKS**

Transmitted herewith is:

## Utility Patent Application Transmittal:

- ☒ Patent Application (31 sheets)  
☒ Drawings: 1 Sheets ☐ Formal ☒ Informal;  
☐ Power of Attorney: ☐ Executed ☐ Not executed (copy from prior application)  
☒ Declaration: ☒ Executed ☐ Not executed  
☐ Assignment with Recordation Form  
☐ 37 CFR 3.73(b) Statement  
☐ Information Disclosure Statement with References (☐)  
☐ NonPublication Request under 35 U.S.C. 122(b)(2)(B)(i)  
☒ Postcard  
☐ A check in the amount of \$        is attached  
X Fee Transmittal (duplicate)  
X Preliminary Amendment with replacement drawing sheet

  
Signature

Dated: 1-13-04

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January 13, 2004 with the U.S. Postal Service as Express Mail  
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Signature of Person Mailing Correspondence**Dani I S. Kasten**

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